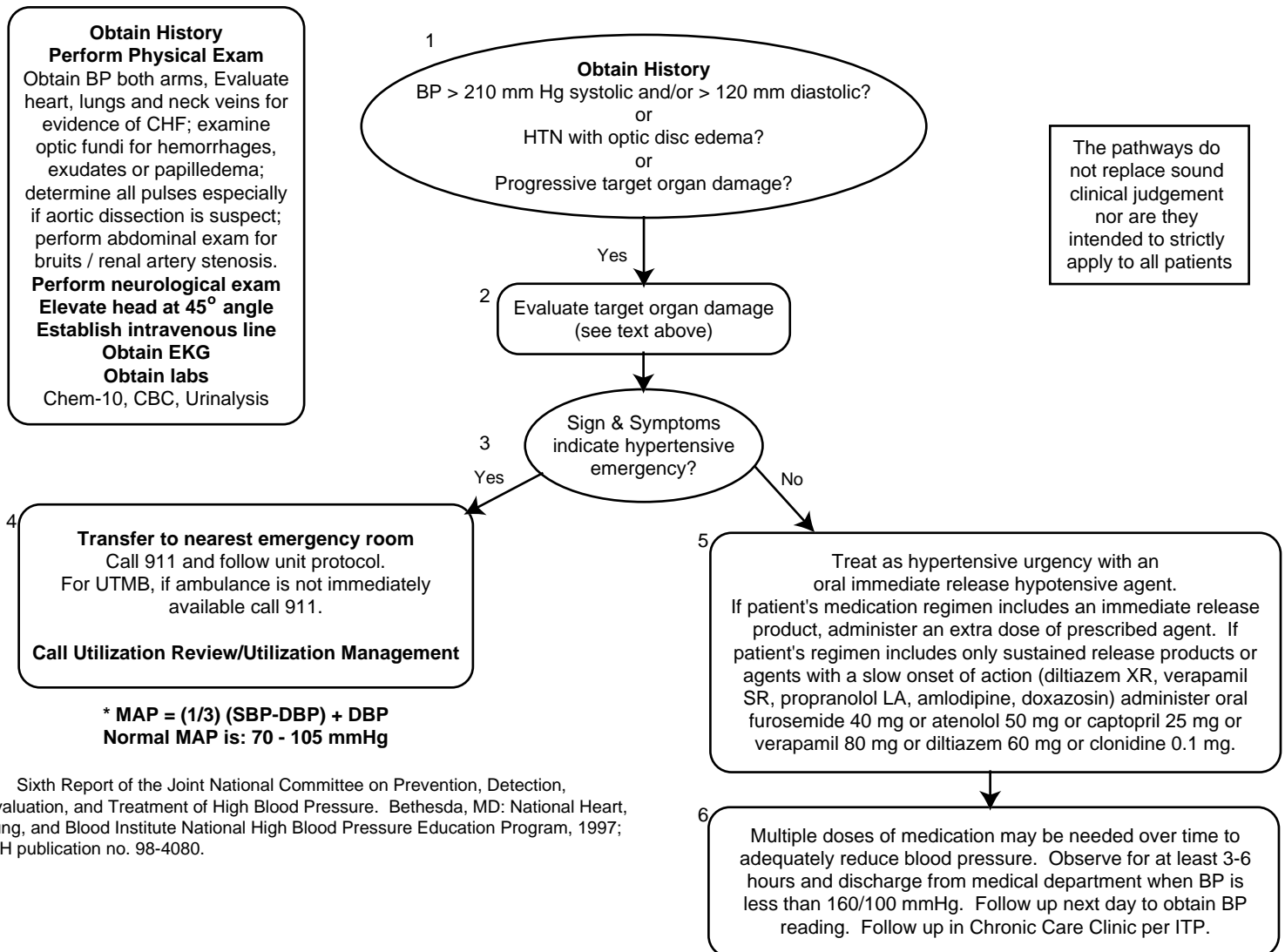


HYPERTENSION EMERGENCY (See JNC-VI RISK STRATIFICATION AND TREATMENT) (1)

Hypertensive emergencies occur rarely, but immediate blood pressure reduction is required to diminish the progression of target organ damage. Target organ damage may be manifested as hypertensive encephalopathy, intracranial hemorrhage, unstable angina pectoris, acute myocardial infarction, acute left ventricular failure with pulmonary edema, dissecting aortic aneurysm, acute renal failure or eclampsia. Most hypertensive emergencies are treated initially with parenteral agents. Blood pressure reduction does not need to reach the normal range immediately. The initial goal of therapy is to reduce the mean arterial blood pressure* by no more than 25% (within minutes to 2 hours), then toward 160/100 mm Hg within 2 to 6 hours, avoiding excessive falls in pressure that may precipitate renal, cerebral, or coronary ischemia.

HYPERTENSION URGENCY (See JNC-VI RISK STRATIFICATION AND TREATMENT) (1)

Hypertensive urgencies are described as episodes of asymptomatic severe blood pressure elevation that should be reduced within several hours. Blood pressure readings in the upper level of stage 3 (systolic > 210 mm Hg and/or diastolic > 120 mm Hg) are considered to hypertensive urgencies. Elevated blood pressure alone, in absence of symptoms or new or progressive target organ damage, rarely requires emergency therapy. Hypertensive urgencies can be managed with oral doses of drugs which have a relative fast onset of action. The choices include oral loop diuretics, beta-blockers, ace-inhibitors, alpha2-agonists, or calcium channel antagonists.



1. Sixth Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure. Bethesda, MD: National Heart, Lung, and Blood Institute National High Blood Pressure Education Program, 1997; NIH publication no. 98-4080.